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(54) **Multi-purpose medical implant devices**

(57) Described are medical devices for supporting or inducing bone growth including an implant body defining one or more separation-assist lines that facilitate separation of the body into two or more substantially pre-defined pieces. The implant body can be used and implanted as a whole or may be separated into multiple pieces, some or all of which can be used at one or multiple implant sites in a patient. Separation-assist lines in implant bodies can serve a dual role in imparting increased and controlled flexibility to the overall body when used as a whole at an implant site. Also described are methods of making and using, and kits including, such medical devices.

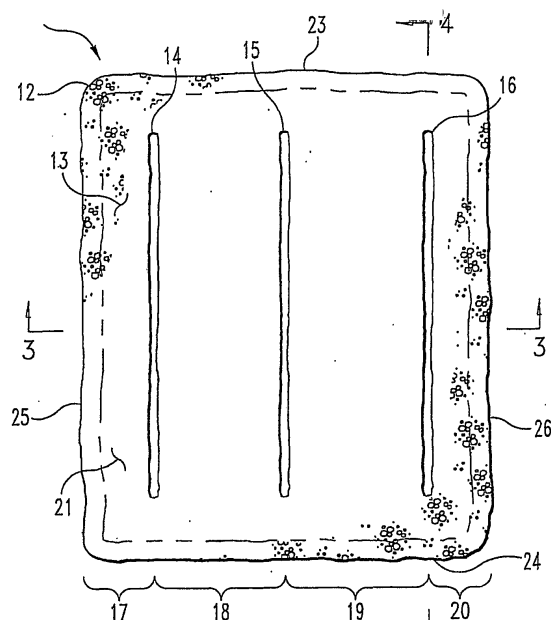


Fig. 1



EUROPEAN SEARCH REPORT

Application Number
EP 10 01 2320

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|--|---|---|--|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (IPC) |
| X | WO 03/026522 A (SULZER SPINE TECH INC [US]; BANICK CHRISTOPHER M [US]; DANT JACK A [US]) 3 April 2003 (2003-04-03) * pages 3-5,7,8 * * figure 1 * * claims 1-4,22-26 * | 1-15 | INV. A61L27/44 |
| X | WO 2004/054633 A (SDGI HOLDINGS INC [US]; RICHART OLIVIER [FR]; MALZER WOLFGANG [DE]) 1 July 2004 (2004-07-01) * pages 2,5,9 * | 1,2,4,7, 11,13,15 | |
| A | US 2004/122429 A1 (PHILLIPS MARK [US] ET AL) 24 June 2004 (2004-06-24) * pages 1-2 * | 1-15 | |
| A | DE 199 43 594 A1 (MERETE MEDICAL GMBH [DE]) 12 April 2001 (2001-04-12) * column 1 * | 1-15 | |
| A | J. F. KEATING, M. M. MCQUEEN: "Substitutes for Autologous Bone Graft in Orthopaedic Trauma", J BONE JOINT SURG, vol. 83-B, no. 1, January 2001 (2001-01), pages 3-8, XP002431716, * the whole document * | 1-15 | TECHNICAL FIELDS SEARCHED (IPC) A61L |
| The present search report has been drawn up for all claims | | | |
| Place of search The Hague | | Date of completion of the search 14 December 2010 | Examiner Weiss, Marie-France |
| CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | |

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EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 10 01 2320

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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14-12-2010

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|---------------------|
| WO 03026522 A | 03-04-2003 | CA 2461407 A1 | 03-04-2003 |
| | | EP 1429692 A2 | 23-06-2004 |
| | | JP 2005503861 T | 10-02-2005 |
| | | US 2003093153 A1 | 15-05-2003 |
| | | US 2007010886 A1 | 11-01-2007 |
| ----- | | | |
| WO 2004054633 A | 01-07-2004 | AU 2003296659 A1 | 09-07-2004 |
| | | DE 10258773 A1 | 08-07-2004 |
| | | DE 60308412 T2 | 04-10-2007 |
| | | EP 1572257 A2 | 14-09-2005 |
| | | ES 2273091 T3 | 01-05-2007 |
| ----- | | | |
| US 2004122429 A1 | 24-06-2004 | US 2009171398 A1 | 02-07-2009 |
| ----- | | | |
| DE 19943594 A1 | 12-04-2001 | NONE | |
| ----- | | | |